

# **LEADING CAUSES OF DEATH AMONG SAN DIEGO COUNTY RESIDENTS BY HHSA REGION†, 2008**

Number and Percent of Deaths

COUNTY-WIDE RANK in 2008 <sup>a</sup>	CAUSE OF DEATH <sup>b</sup>	REGION <sup>†</sup>											
		N. Coastal		N. Central		Central		South		East		N. Inland	
		number of deaths	%	number of deaths	%	number of deaths	%	number of deaths	%	number of deaths	%	number of deaths	%
1	Diseases of heart	853	27.0	853	24.6	626	23.5	630	24.5	924	25.0	831	22.7
2	Malignant neoplasms	764	24.2	889	25.6	614	23.1	661	25.7	847	23.0	915	25.0
3	Alzheimer's disease	191	6.0	214	6.2	87	3.3	105	4.1	255	6.9	287	7.8
4	Cerebrovascular diseases	213	6.7	186	5.4	147	5.5	148	5.7	205	5.6	211	5.8
5	Chronic lower respiratory diseases	174	5.5	169	4.9	127	4.8	120	4.7	237	6.4	214	5.8
6	Accidents (unintentional injuries)	136	4.3	147	4.2	144	5.4	111	4.3	186	5.0	169	4.6
7	Diabetes mellitus	76	2.4	80	2.3	107	4.0	104	4.0	108	2.9	95	2.6
8	Intentional self-harm (suicide)	70	2.2	71	2.0	55	2.1	41	1.6	66	1.8	49	1.3
9	Influenza and pneumonia	56	1.8	63	1.8	64	2.4	46	1.8	48	1.3	58	1.6
10	Chronic liver disease and cirrhosis	41	1.3	54	1.6	62	2.3	56	2.2	69	1.9	47	1.3
11	Essential (primary) hypertension and hypertensive renal disease	50	1.6	52	1.5	31	1.2	26	1.0	57	1.5	58	1.6
12	Parkinson's disease	41	1.3	48	1.4	27	1.0	16	0.6	35	0.9	52	1.4
13	Nephritis, nephrotic syndrome and nephrosis	21	0.7	23	0.7	31	1.2	33	1.3	39	1.1	31	0.8
14	Neoplasms - in situ, benign or unk behavior	24	0.8	28	0.8	12	0.5	17	0.7	17	0.5	27	0.7
15	Viral hepatitis	10	0.3	9	0.3	26	1.0	31	1.2	21	0.6	23	0.6
	All Other Causes	443	14.0	586	16.9	500	18.8	429	16.7	575	15.6	594	16.2
	<b>TOTAL DEATHS:</b>	<b>3,163</b>	<b>100.0</b>	<b>3,472</b>	<b>100.0</b>	<b>2,660</b>	<b>100.0</b>	<b>2,574</b>	<b>100.0</b>	<b>3,689</b>	<b>100.0</b>	<b>3,661</b>	<b>100.0</b>

<sup>a</sup> Rank is based on total number of deaths in each of the National Center for Health Statistics (NCHS) "rankable" categories. The top 15 leading causes of death presented here are based on the county-wide rank among San Diego residents in 2008.

<sup>b</sup> Cause of death is based on the underlying cause of death reported on death certificates as classified by ICD-10 codes.

<sup>†</sup> HHSA Regions were created by grouping contiguous zip codes.

Source: California Department of Public Health, Center for Health Statistics, Office of Health Information and Research, Death Statistical Master Files;  
SANDAG January 1 population estimates (Original Estimates 2009\_Revised 2001-2008)

Prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Epidemiology & Immunizations Services, 4/19/2010

# LEADING CAUSES OF DEATH AMONG SAN DIEGO COUNTY RESIDENTS BY HHSA REGION†, 2008

Age-adjusted Rates

COUNTY- WIDE RANK in 2008 <sup>a</sup>	CAUSE OF DEATH <sup>b</sup>	AGE-ADJUSTED RATES <sup>c</sup>						
		REGION <sup>†</sup>						SAN DIEGO COUNTY
		N. Coastal	N. Central	Central	South	East	N. Inland	
1	Diseases of heart	143.1	125.8	162.9	154.9	184.7	121.0	146.9
2	Malignant neoplasms	142.3	139.8	163.4	162.3	176.3	152.0	155.0
3	Alzheimer's disease	30.5	30.6	22.6	25.5	50.0	38.9	33.9
4	Cerebrovascular diseases	36.1	27.2	39.2	36.3	41.6	31.1	34.9
5	Chronic lower respiratory diseases	31.5	25.8	34.6	29.8	49.4	33.5	33.7
6	Accidents (unintentional injuries)	24.0	22.8	31.8	25.2	37.5	27.6	29.0
7	Diabetes mellitus	13.6	12.1	28.0	25.7	22.4	15.1	18.4
8	Intentional self-harm (suicide)	12.4	10.9	11.7	9.5	13.8	8.5	11.3
9	Influenza and pneumonia	8.8	9.1	17.4	11.3	9.5	7.6	10.2
10	Chronic liver disease and cirrhosis	7.8	8.5	14.5	13.5	14.2	8.0	10.9
11	Essential (primary) hypertension and hypertensive renal disease	7.8	7.5	8.1	6.3	11.0	8.2	8.3
12	Parkinson's disease	6.8	7.5	7.3	*	7.5	7.9	7.1
13	Nephritis, nephrotic syndrome and nephrosis	3.6	3.5	8.3	8.1	7.9	4.8	5.8
14	Neoplasms - in situ, benign or unk behavior	4.4	4.4	*	*	*	4.3	4.1
15	Viral hepatitis	*	*	6.5	7.4	3.9	3.8	3.8
	TOTAL DEATHS:	551.6	526.7	680.4	624.7	750.7	563.9	612.5

<sup>a</sup> Rank is based on total number of deaths in each of the National Center for Health Statistics (NCHS) "rankable" categories. The top 15 leading causes of death presented here are based on the county-wide rank among San Diego residents in 2008.

<sup>b</sup> Cause of death is based on the underlying cause of death reported on death certificates as classified by ICD-10 codes.

<sup>†</sup> HHSA Regions were created by grouping contiguous zip codes.

\* Rate not calculated for fewer than 20 deaths in this category.

<sup>†</sup> HHSA Regions were created by grouping contiguous zip codes.

Source: California Department of Public Health, Center for Health Statistics, Office of Health Information and Research, Death Statistical Master Files;

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# **LEADING CAUSES OF DEATH IN EACH HHSA REGION<sup>†</sup>, SAN DIEGO COUNTY, 2008** **Number and Percent of Deaths, Crude Rates and Age-adjusted Rates**

**Table 1. North Coastal Region**

Rank <sup>a</sup>	Cause of Death <sup>b</sup>	Number of Deaths	%	Crude Rate <sup>c</sup>	Age-adjusted Rate <sup>c</sup>
1	Diseases of heart	853	27.0	157.5	143.1
2	Malignant neoplasms (all cancers)	764	24.2	141.1	142.3
3	Cerebrovascular diseases	213	6.7	39.3	36.1
4	Alzheimer's disease	191	6.0	35.3	30.5
5	Chronic lower respiratory diseases	174	5.5	32.1	31.5
6	Accidents (unintentional injuries)	136	4.3	25.1	24.0
7	Diabetes mellitus	76	2.4	14.0	13.6
8	Intentional self-harm (suicide)	70	2.2	12.9	12.4
9	Influenza and pneumonia	56	1.8	10.3	8.8
10	Essential (primary) hypertension and hypertensive renal disease	50	1.6	9.2	7.8
	All other causes	580	18.3		
	<b>TOTAL DEATHS</b>	<b>3,163</b>	<b>100.0</b>	<b>584.2</b>	<b>551.6</b>

**Table 2. North Central Region**

Rank <sup>a</sup>	Cause of Death <sup>b</sup>	Number of Deaths	%	Crude Rate <sup>c</sup>	Age-adjusted Rate <sup>c</sup>
1	Malignant neoplasms (all cancers)	889	25.6	147.8	139.8
2	Diseases of heart	853	24.6	141.8	125.8
3	Alzheimer's disease	214	6.2	35.6	30.6
4	Cerebrovascular diseases	186	5.4	30.9	27.2
5	Chronic lower respiratory diseases	169	4.9	28.1	25.8
6	Accidents (unintentional injuries)	147	4.2	24.4	22.8
7	Diabetes mellitus	80	2.3	13.3	12.1
8	Intentional self-harm (suicide)	71	2.0	11.8	10.9
9	Influenza and pneumonia	63	1.8	10.5	9.1
10	Chronic liver disease and cirrhosis	54	1.6	9.0	8.5
	All other causes	746	21.5		
	<b>TOTAL DEATHS</b>	<b>3,472</b>	<b>100.0</b>	<b>577.2</b>	<b>526.7</b>

**Table 3. Central Region**

Rank <sup>a</sup>	Cause of Death <sup>b</sup>	Number of Deaths	%	Crude Rate <sup>c</sup>	Age-adjusted Rate <sup>c</sup>
1	Diseases of heart	626	23.5	126.6	162.9
2	Malignant neoplasms (all cancers)	614	23.1	124.1	163.4
3	Cerebrovascular diseases	147	5.5	29.7	39.2
4	Accidents (unintentional injuries)	144	5.4	29.1	31.8
5	Chronic lower respiratory diseases	127	4.8	25.7	34.6
6	Diabetes mellitus	107	4.0	21.6	28.0
7	Alzheimer's disease	87	3.3	17.6	22.6
8	Influenza and pneumonia	64	2.4	12.9	17.4
9	Chronic liver disease and cirrhosis	62	2.3	12.5	14.5
10	Intentional self-harm (suicide)	55	2.1	11.1	11.7
	All other causes	627	23.6		
	<b>TOTAL DEATHS</b>	<b>2,660</b>	<b>100.0</b>	<b>537.8</b>	<b>680.4</b>

<sup>a</sup> Rank is based on total number of deaths in each of the National Center for Health Statistics (NCHS) "rankable" categories.

<sup>b</sup> Cause of death is based on the underlying cause of death reported on death certificates as classified by ICD-10 codes.

<sup>c</sup> All rates are per 100,000 population; age-adjusted rates are adjusted to 2000 U.S. Standard Population.

<sup>†</sup> HHSA Regions were created by grouping contiguous zip codes.

Source: California Department of Public Health, Center for Health Statistics, Office of Health Information and Research, Death Statistical Master Files; SANDAG January 1 population estimates (Original Estimates 2009\_Revised 2001-2008)

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# **LEADING CAUSES OF DEATH IN EACH HHSA REGION<sup>†</sup>, SAN DIEGO COUNTY, 2008** **Number and Percent of Deaths, Crude Rates and Age-adjusted Rates**

**Table 4. South Region**

Rank <sup>a</sup>	Cause of Death <sup>b</sup>	Number of Deaths	%	Crude Rate <sup>c</sup>	Age-adjusted Rate <sup>c</sup>
1	Malignant neoplasms (all cancers)	661	25.7	143.9	162.3
2	Diseases of heart	630	24.5	137.2	154.9
3	Cerebrovascular diseases	148	5.7	32.2	36.3
4	Chronic lower respiratory diseases	120	4.7	26.1	29.8
5	Accidents (unintentional injuries)	111	4.3	24.2	25.2
6	Alzheimer's disease	105	4.1	22.9	25.5
7	Diabetes mellitus	104	4.0	22.6	25.7
8	Chronic liver disease and cirrhosis	56	2.2	12.2	13.5
9	Influenza and pneumonia	46	1.8	10.0	11.3
10	Intentional self-harm (suicide)	41	1.6	8.9	9.5
	All other causes	552	21.4		
	<b>TOTAL DEATHS</b>	<b>2,574</b>	<b>100.0</b>	<b>560.5</b>	<b>624.7</b>

**Table 5. East Region**

Rank <sup>a</sup>	Cause of Death <sup>b</sup>	Number of Deaths	%	Crude Rate <sup>c</sup>	Age-adjusted Rate <sup>c</sup>
1	Diseases of heart	924	25.0	198.2	184.7
2	Malignant neoplasms (all cancers)	847	23.0	181.7	176.3
3	Alzheimer's disease	255	6.9	54.7	50.0
4	Chronic lower respiratory diseases	237	6.4	50.8	49.4
5	Cerebrovascular diseases	205	5.6	44.0	41.6
6	Accidents (unintentional injuries)	186	5.0	39.9	37.5
7	Diabetes mellitus	108	2.9	23.2	22.4
8	Chronic liver disease and cirrhosis	69	1.9	14.8	14.2
9	Intentional self-harm (suicide)	66	1.8	14.2	13.8
10	Essential (primary) hypertension and hypertensive renal disease	57	1.5	12.2	11.0
	All other causes	735	19.9		
	<b>TOTAL DEATHS</b>	<b>3,689</b>	<b>100.0</b>	<b>791.4</b>	<b>750.7</b>

**Table 6. North Inland Region**

Rank <sup>a</sup>	Cause of Death <sup>b</sup>	Number of Deaths	%	Crude Rate <sup>c</sup>	Age-adjusted Rate <sup>c</sup>
1	Malignant neoplasms (all cancers)	915	25.0	160.9	152.0
2	Diseases of heart	831	22.7	146.2	121.0
3	Alzheimer's disease	287	7.8	50.5	38.9
4	Chronic lower respiratory diseases	214	5.8	37.6	33.5
5	Cerebrovascular diseases	211	5.8	37.1	31.1
6	Accidents (unintentional injuries)	169	4.6	29.7	27.6
7	Diabetes mellitus	95	2.6	16.7	15.1
8	Essential (primary) hypertension and hypertensive	58	1.6	10.2	8.2
9	Influenza and pneumonia	58	1.6	10.2	7.6
10	Parkinson's disease	52	1.4	9.1	7.9
	All other causes	771	21.1		
	<b>TOTAL DEATHS</b>	<b>3,661</b>	<b>100.0</b>	<b>643.9</b>	<b>563.9</b>

<sup>a</sup> Rank is based on total number of deaths in each of the National Center for Health Statistics (NCHS) "rankable" categories.

<sup>b</sup> Cause of death is based on the underlying cause of death reported on death certificates as classified by ICD-10 codes.

<sup>c</sup> All rates are per 100,000 population; age-adjusted rates are adjusted to 2000 U.S. Standard Population.

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